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OM protein - protein search, using sw model

Run on: May 24, 2004, 08:18:47 ; Search time 586 Seconds

(without alignments)
241.320 Million cell updates/sec

Title: US-09-977-261-2

Perfect score: 1 MAGGSLVSWRAFHGCDSEAE.....PASVSGDADGSTRSPRQEP 507

Sequence: 1 MAGGSLVSWRAFHGCDSEAE.....PASVSGDADGSTRSPRQEP 507

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 1149313 seqs, 278921704 residues

Total number of hits satisfying chosen parameters: 1149313

Minimum DB seq length: 0
Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%
Maximum Match 100%

Listing first 45 summaries

Database : Published Applications AA:*

1: /cgn2_6/ptodata/1/pubpaa/US07_PUBCOMB.pep:*
2: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep:*
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9: /cgn2_6/ptodata/1/pubpaa/US09A_PUBCOMB.pep:*
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18: /cgn2_6/ptodata/1/pubpaa/US60_PUBCOMB.pep:*

Pred. No. is the number of results predicted by chance to have a
score greater than or equal to the score of the result being printed,
and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2671	100.0	507	9	US-09-977-269-2
2	2671	100.0	507	9	US-09-977-260-2
3	2671	100.0	507	10	US-09-977-261-2
4	2445	91.5	527	14	US-10-100-217-2
5	2432	90.7	553	14	US-10-103-380A-2
6	2012	75.3	386	14	US-10-187-900-4
7	2012	75.3	415	14	US-10-187-900-2
8	1245.5	46.6	450	9	US-09-977-269-7
9	1245.5	46.6	450	9	US-09-977-260-7
10	1245.5	46.6	450	10	US-09-977-261-7
11	1245.5	46.6	450	12	US-10-060-065-21
12	1245.5	46.6	450	14	US-10-059-585-42
13	1245.5	46.6	450	14	US-10-177-293-88
14	1245.5	46.6	450	14	US-10-298-377A-2
15	1245.5	46.6	450	15	US-10-116-275-121

16	1245.5	46.6	450	15	US-10-116-275-265	Sequence 265, App
17	1245.5	46.6	450	15	US-10-394-322A-15	Sequence 15, Appl
18	916	34.3	357	10	US-09-929-266-9	Sequence 9, Appl
19	768	28.8	258	9	US-09-840-704-3	Sequence 3, Appl
20	753	28.2	502	12	US-10-362-010-27	Sequence 27, Appl
21	745	27.9	567	12	US-09-805-020-40	Sequence 40, Appl
22	742.5	27.8	508	15	US-10-394-322A-41	Sequence 41, Appl
23	742.5	27.8	509	9	US-09-977-269-18	Sequence 18, Appl
24	742.5	27.8	509	9	US-09-977-260-18	Sequence 18, Appl
25	742.5	27.8	509	10	US-09-977-261-18	Sequence 18, Appl
26	742.5	27.8	509	14	US-10-212-346-1	Sequence 1, Appl
27	742.5	27.8	509	15	US-10-366-288-28	Sequence 28, Appl
28	733	27.4	533	12	US-10-276-633-1	Sequence 1, Appl
29	727	27.2	535	15	US-10-394-322A-56	Sequence 56, Appl
30	727	27.2	536	9	US-09-977-269-13	Sequence 13, Appl
31	727	27.2	536	9	US-09-977-260-13	Sequence 13, Appl
32	727	27.2	536	10	US-09-929-266-10	Sequence 10, Appl
33	727	27.2	526	10	US-09-977-261-13	Sequence 13, Appl
34	724.5	27.1	526	12	US-10-276-633-3	Sequence 3, Appl
35	724.5	27.1	526	15	US-10-394-322A-31	Sequence 31, Appl
36	720.5	27.0	505	9	US-09-977-269-17	Sequence 17, Appl
37	720.5	27.0	505	9	US-09-977-260-17	Sequence 17, Appl
38	720.5	27.0	505	10	US-09-977-261-17	Sequence 17, Appl
39	720.5	27.0	505	15	US-10-193-720-2	Sequence 2, Appl
40	716	26.8	505	10	US-09-976-782-84	Sequence 84, Appl
41	716	26.8	533	12	US-10-276-633-2	Sequence 2, Appl
42	710	26.6	543	9	US-09-977-269-14	Sequence 14, Appl
43	710	26.6	543	9	US-09-977-260-14	Sequence 14, Appl
44	710	26.6	543	10	US-09-977-261-14	Sequence 14, Appl
45	710	26.6	543	14	US-10-298-377A-4	Sequence 4, Appl

ALIGNMENTS

RESULT 1
US-09-977-269-2
Sequence 2, Application US/09977269
Patent No. US20020082037A1
GENERAL INFORMATION:
APPLICANT: ULIRICH, AXEL
APPLICANT: GISHIZKY, MINHAEL
APPLICANT: SUDES, IRMINARD
TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
FILE REFERENCE: 038602/1260
CURRENT APPLICATION NUMBER: US/09/977,269
CURRENT FILING DATE: 2001-10-16
PRIOR APPLICATION NUMBER: 08/232,545
PRIOR FILING DATE: 1994-04-22
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 2
LENGTH: 507
TYPE: PRT
ORGANISM: Unknown Organism
FEATURE:
OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte
OTHER INFORMATION: kinase 1
US-09-977-269-2

Query Match 100.0%; Score 2671; DB 9; Length 507;
Best Local Similarity 100.0%; Pred. No. 5.8e-209;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAGGSLVSWRAFHGCDSEAEELPRVSPFLRAMHPPVSARMPTRMAAGTCITCKERT 60
DB 1 MAGGSLVSWRAFHGCDSEAEELPRVSPFLRAMHPPVSARMPTRMAAGTCITCKERT 60
QY RPKPELAFRKDDVVTILEACENKSWYRKVHTSCQEGILANCAIPEPAISADPTLSLM 120
DB RPKPELAFRKDDVVTILEACENKSWYRKVHTSCQEGILANCAIPEPAISADPTLSLM 120
QY 61 RPKPELAFRKDDVVTILEACENKSWYRKVHTSCQEGILANCAIPEPAISADPTLSLM 120
DB 61 RPKPELAFRKDDVVTILEACENKSWYRKVHTSCQEGILANCAIPEPAISADPTLSLM 120
QY 121 PWFHGKISQGEAVQLOPPEDGLFLVRESARRHPGQYVLCVSGRQVTHRVLAHRDCHLT 180
DB 121 PWFHGKISQGEAVQLOPPEDGLFLVRESARRHPGQYVLCVSGRQVTHRVLAHRDCHLT 180

Db 121 PMFHGKISGQBAVQOQOPEDGLFLVRESARHPGDIYLVCSFGRDVIHRYVLHRDGHLLTI 180
QY 181 DEAVFFCNLMQVMEHYSKDKGALCTKLVRPKRKHGTSABEELARAGMLNLQHLTLGAQ 240
Db 181 DEAVFFCNLMQVMEHYSKDKGALCTKLVRPKRKHGTSABEELARAGMLNLQHLTLGAQ 240
QY 241 IGGEFGAVLQGEYLGQKVAVNKICDVTAAFLDETAVNTKQHMENLVRLGLVILHQGL 300
Db 241 IGGEFGAVLQGEYLGQKVAVNKICDVTAAFLDETAVNTKQHMENLVRLGLVILHQGL 300
QY 301 YIIMEHYSKGNLVNPLFRTGRALVNTAQLQPSLHVABGMEYLESKKLVHRDLAARNILY 360
Db 301 YIIMEHYSKGNLVNPLFRTGRALVNTAQLQPSLHVABGMEYLESKKLVHRDLAARNILY 360
QY 361 SEDLVAKVSDPGLAKERKGLDSSRLPVKWTAPBALKHGFTSKSDVMSFGVILMEVFSY 420
Db 361 SEDLVAKVSDPGLAKERKGLDSSRLPVKWTAPBALKHGFTSKSDVMSFGVILMEVFSY 420
QY 421 GRAPYPMKSLKEVSEAVEKGYRMEPPGCGPVHVLMSCWAEAPARRPFRKLAEKLAR 480
Db 421 GRAPYPMKSLKEVSEAVEKGYRMEPPGCGPVHVLMSCWAEAPARRPFRKLAEKLAR 480
QY 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
Db 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507

RESULT 2

US-09-977-260-2
; Sequence 2, Application US/09977260
; Publication No. US20020192790A1
; GENERAL INFORMATION:
; APPLICANT: ULRICH, AXEL
; APPLICANT: GISHIZKY, MIKHAIL
; APPLICANT: SURES, IRMINGARD
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
; FILE REFERENCE: 038602/1260
; CURRENT APPLICATION NUMBER: US/09/977,260
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 08/232,545
; PRIOR FILING DATE: 1994-04-22
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 507
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte
; US-09-977-260-2

Query Match 100.0%; Score 2671; DB 9; Length 507;
Best Local Similarity 100.0%; Pred. No. 5.8e-209;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAGRSLVSWRAFHGCDASAEELPRVSPRLRAMHPVPSARMPTRMAPTGQCTTKCBHT 60
Db 1 MAGRSLVSWRAFHGCDASAEELPRVSPRLRAMHPVPSARMPTRMAPTGQCTTKCBHT 60
QY 61 RPKPELAFRKGDVVTILEACENKSWRYVHHTSGGGLAAGALREREAASADPKLSIM 120
Db 61 RPKPELAFRKGDVVTILEACENKSWRYVHHTSGGGLAAGALREREAASADPKLSIM 120
QY 121 PMFHGKISGQBAVQOQOPEDGLFLVRESARHPGDIYLVCSFGRDVIHRYVLHRDGHLLTI 180
Db 121 PMFHGKISGQBAVQOQOPEDGLFLVRESARHPGDIYLVCSFGRDVIHRYVLHRDGHLLTI 180
QY 181 DEAVFFCNLMQVMEHYSKDKGALCTKLVRPKRKHGTSABEELARAGMLNLQHLTLGAQ 240
Db 181 DEAVFFCNLMQVMEHYSKDKGALCTKLVRPKRKHGTSABEELARAGMLNLQHLTLGAQ 240

QY 241 IGGEFGAVLQGEYLGQKVAVNKICDVTAAFLDETAVNTKQHMENLVRLGLVILHQGL 300
Db 241 IGGEFGAVLQGEYLGQKVAVNKICDVTAAFLDETAVNTKQHMENLVRLGLVILHQGL 300
QY 301 YIIMEHYSKGNLVNPLFRTGRALVNTAQLQPSLHVABGMEYLESKKLVHRDLAARNILY 360
Db 301 YIIMEHYSKGNLVNPLFRTGRALVNTAQLQPSLHVABGMEYLESKKLVHRDLAARNILY 360
QY 361 SEDLVAKVSDPGLAKERKGLDSSRLPVKWTAPBALKHGFTSKSDVMSFGVILMEVFSY 420
Db 361 SEDLVAKVSDPGLAKERKGLDSSRLPVKWTAPBALKHGFTSKSDVMSFGVILMEVFSY 420
QY 421 GRAPYPMKSLKEVSEAVEKGYRMEPPGCGPVHVLMSCWAEAPARRPFRKLAEKLAR 480
Db 421 GRAPYPMKSLKEVSEAVEKGYRMEPPGCGPVHVLMSCWAEAPARRPFRKLAEKLAR 480
QY 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
Db 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507

RESULT 3

US-09-977-261-2
; Sequence 2, Application US/09977261
; Publication No. US20030054527A1
; GENERAL INFORMATION:
; APPLICANT: ULRICH, AXEL
; APPLICANT: GISHIZKY, MIKHAIL
; APPLICANT: SURES, IRMINGARD
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
; FILE REFERENCE: 038602/1259
; CURRENT APPLICATION NUMBER: US/09/977,261
; CURRENT FILING DATE: 2001-10-16
; PRIOR APPLICATION NUMBER: 08/232,545
; PRIOR FILING DATE: 1994-04-22
; NUMBER OF SEQ ID NOS: 24
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 2
; LENGTH: 507
; TYPE: PRT
; ORGANISM: Unknown Organism
; FEATURE:
; OTHER INFORMATION: Description of Unknown Organism: Megakaryocyte
; US-09-977-261-2

Query Match 100.0%; Score 2671; DB 10; Length 507;
Best Local Similarity 100.0%; Pred. No. 5.8e-209;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAGRSLVSWRAFHGCDASAEELPRVSPRLRAMHPVPSARMPTRMAPTGQCTTKCBHT 60
Db 1 MAGRSLVSWRAFHGCDASAEELPRVSPRLRAMHPVPSARMPTRMAPTGQCTTKCBHT 60
QY 61 RPKPELAFRKGDVVTILEACENKSWRYVHHTSGGGLAAGALREREAASADPKLSIM 120
Db 61 RPKPELAFRKGDVVTILEACENKSWRYVHHTSGGGLAAGALREREAASADPKLSIM 120
QY 121 PMFHGKISGQBAVQOQOPEDGLFLVRESARHPGDIYLVCSFGRDVIHRYVLHRDGHLLTI 180
Db 121 PMFHGKISGQBAVQOQOPEDGLFLVRESARHPGDIYLVCSFGRDVIHRYVLHRDGHLLTI 180
QY 181 DEAVFFCNLMQVMEHYSKDKGALCTKLVRPKRKHGTSABEELARAGMLNLQHLTLGAQ 240
Db 181 DEAVFFCNLMQVMEHYSKDKGALCTKLVRPKRKHGTSABEELARAGMLNLQHLTLGAQ 240
QY 241 IGGEFGAVLQGEYLGQKVAVNKICDVTAAFLDETAVNTKQHMENLVRLGLVILHQGL 300
Db 241 IGGEFGAVLQGEYLGQKVAVNKICDVTAAFLDETAVNTKQHMENLVRLGLVILHQGL 300
QY 301 YIIMEHYSKGNLVNPLFRTGRALVNTAQLQPSLHVABGMEYLESKKLVHRDLAARNILY 360
Db 301 YIIMEHYSKGNLVNPLFRTGRALVNTAQLQPSLHVABGMEYLESKKLVHRDLAARNILY 360

QY 361 SEDIVAKVSDPGLAKAEKRGDLSRLPYKMTAPALKHGKFTSKSDVMSFGVILMEVFSY 420
DB 361 SEDIVAKVSDPGLAKAEKRGDLSRLPYKMTAPALKHGKFTSKSDVMSFGVILMEVFSY 420
QY 421 GRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVHVLMSSCWEAEPPARRPPRKLAEKLAR 480
DB 421 GRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVHVLMSSCWEAEPPARRPPRKLAEKLAR 480
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DB 481 ELRSAGAPASVSGODADGSTSPRSQEP 507

RESULT 4

US-10-100-217-2
; Sequence 2, Application US/10100217
; Publication No. US20030181404A1
; GENERAL INFORMATION:
; APPLICANT: Avraham, Hava
; APPLICANT: Grozman, Jerome E.
; TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT OF
; TITLE OF INVENTION: BREAST CANCER
; FILE REFERENCE: NEDH97-01PAZ
; CURRENT FILING DATE: 2002-03-14
; PRIOR FILING DATE: 2002-03-14
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: 09/315,928
; PRIOR FILING DATE: EARLIER FILING DATE: 1999-05-20
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 08/876,882
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-06-16
; PRIOR APPLICATION NUMBER: EARLIER APPLICATION NUMBER: US 60/035,228
; PRIOR FILING DATE: EARLIER FILING DATE: 1997-01-08
; NUMBER OF SEQ ID NOS: 5
; SOFTWARE: FastSeq for Windows Version 3.0
; SEQ ID NO 2
; LENGTH: 527
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-100-217-2

Query Match 91.5%; Score 2445; DB 14; Length 527;
Best Local Similarity 93.5%; Pred. No. 1,6e-190;
Matches 472; Conservative 1; Mismatches 18; Indels 14; Gaps 2;

QY 1 MAGRSLVSWRAFHGCDLSAEELPRVSPRFLRAMHPPVSAKMPTRMAFGTQCTTKCHNT 60
DB 1 MAGRSLVSWRAFHGCDLSAEELPRVSPRFLRAMHPPVSAKMPTRMAFGTQCTTKCHNT 60
QY 61 RPKPGLAFLRKGDVVTLLIACENKSMYRVKHTSGQGLLAAGALREBALSADPKLSLM 120
DB 61 RPKPGLAFLRKGDVVTLLIACENKSMYRVKHTSGQGLLAAGALREBALSADPKLSLM 120
QY 121 PMFHGKISGQEAVOQLPPEDGLFLVRESARHPGDVYLCVSGRVDVHYRVLAHRDGLTI 180
DB 121 PMFHGKISGQEAVOQLPPEDGLFLVRESARHPGDVYLCVSGRVDVHYRVLAHRDGLTI 180
QY 121 PMFHGKISGQEAVOQLPPEDGLFLVRESARHPGDVYLCVSGRVDVHYRVLAHRDGLTI 180
DB 121 PMFHGKISGQEAVOQLPPEDGLFLVRESARHPGDVYLCVSGRVDVHYRVLAHRDGLTI 180
QY 181 DEAVFPCNLMDVMEVHYSKDKGALCTKLVRPKKHGKTSABEELADAGMLNLQHTLLGAQ 240
DB 181 DEAVFPCNLMDVMEVHYSKDKGALCTKLVRPKKHGKTSABEELADAGMLNLQHTLLGAQ 240
QY 181 DEAVFPCNLMDVMEVHYSKDKGALCTKLVRPKKHGKTSABEELADAGMLNLQHTLLGAQ 240
DB 181 DEAVFPCNLMDVMEVHYSKDKGALCTKLVRPKKHGKTSABEELADAGMLNLQHTLLGAQ 240
QY 241 IGEFGFAGVLOGEYLGQKVAVKIKDVTAAQAFDELTAVMTMQEHNLVRLIGVILHOG 300
DB 241 IGEFGFAGVLOGEYLGQKVAVKIKDVTAAQAFDELTAVMTMQEHNLVRLIGVILHOG 300
QY 241 IGEFGFAGVLOGEYLGQKVAVKIKDVTAAQAFDELTAVMTMQEHNLVRLIGVILHOG 300
DB 241 IGEFGFAGVLOGEYLGQKVAVKIKDVTAAQAFDELTAVMTMQEHNLVRLIGVILHOG 300
QY 301 YIVMEHVSXGNLVNPLRTGRALVNTAQLQPSLHVABGMEYLESKCLVHRDLAARNILY 360
DB 301 YIVMEHVSXGNLVNPLRTGRALVNTAQLQPSLHVABGMEYLESKCLVHRDLAARNILY 360
QY 301 YIVMEHVSXGNLVNPLRTGRALVNTAQLQPSLHVABGMEYLESKCLVHRDLAARNILY 360
DB 301 YIVMEHVSXGNLVNPLRTGRALVNTAQLQPSLHVABGMEYLESKCLVHRDLAARNILY 360
QY 361 SEDIVAKVSDPGLAKAEKRGDLSRLPYKMTAPALKHGKFTSKSDVMSFGVILMEVFSY 420
DB 361 SEDIVAKVSDPGLAKAEKRGDLSRLPYKMTAPALKHGKFTSKSDVMSFGVILMEVFSY 420
QY 421 GRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVHVLMSSCWEAEPPARRPPRKLAEKLAR 480
DB 421 GRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVHVLMSSCWEAEPPARRPPRKLAEKLAR 480

DB 420 GRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVHVLMSSCWEAEPPARRPPRKLAEKLAR 469
QY 481 ELRSAGAPASVSGODADGSTSPRSQ 505
DB 470 ---SAMPKRSWPSGVAVQVPPPSQ 491

RESULT 5

US-10-103-380A-2
; Sequence 2, Application US/10103380A
; Publication No. US20030186242A1
; GENERAL INFORMATION:
; APPLICANT: Dai, Ken-Shwo
; TITLE OF INVENTION: HUMAN MEKARYOCYTE-ASSOCIATED TYROSINE KINASE (MATE)-RELATED GE
; TITLE OF INVENTION: VARIANT ASSOCIATED WITH LUNG CANCERS
; FILE REFERENCE: U 013931-2
; CURRENT FILING DATE: US/10/103,380A
; CURRENT FILING DATE: 2002-08-08
; NUMBER OF SEQ ID NOS: 2
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 2
; LENGTH: 553
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-103-380A-2

Query Match 90.7%; Score 2422; DB 14; Length 553;
Best Local Similarity 88.9%; Pred. No. 1,3e-188;
Matches 472; Conservative 1; Mismatches 18; Indels 40; Gaps 3;

QY 1 MAGRSLVSWRAFHGCDLSAEELPRVSPRFLRAMHPPVSAKMPTRMAFGTQCTTKCHNT 60
DB 1 MAGRSLVSWRAFHGCDLSAEELPRVSPRFLRAMHPPVSAKMPTRMAFGTQCTTKCHNT 60
QY 61 RPKPGLAFLRKGDVVTLLIACENKSMYRVKHTSGQGLLAAGALREBALSADPKLSLM 120
DB 61 RPKPGLAFLRKGDVVTLLIACENKSMYRVKHTSGQGLLAAGALREBALSADPKLSLM 120
QY 121 PMFHGKISGQEAVOQLPPEDGLFLVRESARHPGDVYLCVSGRVDVHYRVLAHRDGLTI 180
DB 121 PMFHGKISGQEAVOQLPPEDGLFLVRESARHPGDVYLCVSGRVDVHYRVLAHRDGLTI 180
QY 121 PMFHGKISGQEAVOQLPPEDGLFLVRESARHPGDVYLCVSGRVDVHYRVLAHRDGLTI 180
DB 121 PMFHGKISGQEAVOQLPPEDGLFLVRESARHPGDVYLCVSGRVDVHYRVLAHRDGLTI 180
QY 181 DEAVFPCNLMDVMEVHYSKDKGALCTKLVRPKKHGKTSABEELADAGMLNLQHTLLGAQ 240
DB 181 DEAVFPCNLMDVMEVHYSKDKGALCTKLVRPKKHGKTSABEELADAGMLNLQHTLLGAQ 240
QY 181 DEAVFPCNLMDVMEVHYSKDKGALCTKLVRPKKHGKTSABEELADAGMLNLQHTLLGAQ 240
DB 181 DEAVFPCNLMDVMEVHYSKDKGALCTKLVRPKKHGKTSABEELADAGMLNLQHTLLGAQ 240
QY 241 IGEFGFAGVLOGEYLGQKVAVKIKDVTAAQAFDELTAVMTMQEHNLVRLIGVILHOG 300
DB 241 IGEFGFAGVLOGEYLGQKVAVKIKDVTAAQAFDELTAVMTMQEHNLVRLIGVILHOG 300
QY 241 IGEFGFAGVLOGEYLGQKVAVKIKDVTAAQAFDELTAVMTMQEHNLVRLIGVILHOG 300
DB 241 IGEFGFAGVLOGEYLGQKVAVKIKDVTAAQAFDELTAVMTMQEHNLVRLIGVILHOG 300
QY 275 DEAVFPCNLMDVMEVHYSKDKGALCTKLVRPKKHGKTSABEELADAGMLNLQHTLLGAQ 334
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DB 301 YIVMEHVSXGNLVNPLRTGRALVNTAQLQPSLHVABGMEYLESKCLVHRDLAARNILY 360
QY 335 HVABGMEYLESKCLVHRDLAARNILYSEDVAKVSDPGLAKAEKRGDLSRLPYKMTAPAL 394
DB 335 HVABGMEYLESKCLVHRDLAARNILYSEDVAKVSDPGLAKAEKRGDLSRLPYKMTAPAL 394
QY 361 HVABGMEYLESKCLVHRDLAARNILYSEDVAKVSDPGLAKAEKRGDLSRLPYKMTAPAL 420
DB 361 HVABGMEYLESKCLVHRDLAARNILYSEDVAKVSDPGLAKAEKRGDLSRLPYKMTAPAL 420
QY 395 ALKHGKFTSKSDVMSFGVILMEVFSYGRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVH 454
DB 395 ALKHGKFTSKSDVMSFGVILMEVFSYGRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVH 454
QY 421 ALKHGKFTSKSDVMSFGVILMEVFSYGRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVH 479
DB 421 ALKHGKFTSKSDVMSFGVILMEVFSYGRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVH 479
QY 455 VLMSSCWEAEPPARRPPRKLAEKLARLSAGAPASVSGODADGSTSPRSQ 505
DB 455 VLMSSCWEAEPPARRPPRKLAEKLARLSAGAPASVSGODADGSTSPRSQ 505
QY 480 VLMSSCWEAEPPARRPPRKLAEKLARLSAGAPASVSGODADGSTSPRSQ 517
DB 480 VLMSSCWEAEPPARRPPRKLAEKLARLSAGAPASVSGODADGSTSPRSQ 517

RESULT 6
US-10-187-900-4
; Sequence 4, Application US/10187900
; Publication No. US20030106221A1
; GENERAL INFORMATION:

APPLICANT: BEASLEY, Ellen M. et al
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: CL001061
CURRENT APPLICATION NUMBER: US/10/187,900
CURRENT FILING DATE: 2002-07-03
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 4
LENGTH: 386
TYPE: PRT
ORGANISM: Human
US-10-187-900-4

Query Match 75.3%; Score 2012; DB 14; Length 386;
Best Local Similarity 100.0%; Pred. No. 2e-155;
Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 122 WFGKTSQGEAVVQOLPPEDGFLVRESARHPGDVYLCVSPGSDVTHYRVLHRDGLHTID 181
DB 1 WFGKTSQGEAVVQOLPPEDGFLVRESARHPGDVYLCVSPGSDVTHYRVLHRDGLHTID 60
QY 182 EAVFPCNIMDMVHEHYSKDKGAICTKLVPRPKHGTSAEBELARAGMLNLOHLLTGAQI 241
DB 61 EAVFPCNIMDMVHEHYSKDKGAICTKLVPRPKHGTSAEBELARAGMLNLOHLLTGAQI 120
QY 242 GEGEFGAVLQGEYLGOKVAVNKIKCDVTAQAFIDETAVMTQMHENLVRLIGVILHQGY 301
DB 121 GEGEFGAVLQGEYLGOKVAVNKIKCDVTAQAFIDETAVMTQMHENLVRLIGVILHQGY 180
QY 302 IYMEHVS KGNLVNPLRTGRALVNTAQLQESLHVAEGMEYLSKKLVHRDLAARNILVS 361
DB 181 IYMEHVS KGNLVNPLRTGRALVNTAQLQESLHVAEGMEYLSKKLVHRDLAARNILVS 240
QY 362 EDLVAKVSDPGLAKAEKRGDSSRLPYKWTAPALKHGKFTSKSDVMSFGVLLMEVFSYG 421
DB 241 EDLVAKVSDPGLAKAEKRGDSSRLPYKWTAPALKHGKFTSKSDVMSFGVLLMEVFSYG 300
QY 422 RAPIPKMSLKEVSEAVEKGYRMEPPGCGPVPVHVMSSCWEABPARRPPFKLAELARE 481
DB 301 RAPIPKMSLKEVSEAVEKGYRMEPPGCGPVPVHVMSSCWEABPARRPPFKLAELARE 360
QY 482 ILSAGAPASVSGQDADGSTSPRSQEP 507
DB 361 ILSAGAPASVSGQDADGSTSPRSQEP 386

RESULT 7

US-10-187-900-2
Sequence 2, Application US/10187900
Publication No. US20030166221A1
GENERAL INFORMATION:
APPLICANT: BEASLEY, Ellen M. et al
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
TITLE OF INVENTION: THEREOF
FILE REFERENCE: CL001061
CURRENT APPLICATION NUMBER: US/10/187,900
CURRENT FILING DATE: 2002-07-03
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FASTSEQ for Windows Version 4.0
SEQ ID NO 2
LENGTH: 415
TYPE: PRT
ORGANISM: Human
US-10-187-900-2

Query Match 75.3%; Score 2012; DB 14; Length 415;
Best Local Similarity 100.0%; Pred. No. 2.2e-155;
Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 122 WFGKTSQGEAVVQOLPPEDGFLVRESARHPGDVYLCVSPGSDVTHYRVLHRDGLHTID 181

DB 30 WFGKTSQGEAVVQOLPPEDGFLVRESARHPGDVYLCVSPGSDVTHYRVLHRDGLHTID 89
QY 182 EAVFPCNIMDMVHEHYSKDKGAICTKLVPRPKHGTSAEBELARAGMLNLOHLLTGAQI 241
DB 90 EAVFPCNIMDMVHEHYSKDKGAICTKLVPRPKHGTSAEBELARAGMLNLOHLLTGAQI 149
QY 242 GEGEFGAVLQGEYLGOKVAVNKIKCDVTAQAFIDETAVMTQMHENLVRLIGVILHQGY 301
DB 150 GEGEFGAVLQGEYLGOKVAVNKIKCDVTAQAFIDETAVMTQMHENLVRLIGVILHQGY 209
QY 302 IYMEHVS KGNLVNPLRTGRALVNTAQLQESLHVAEGMEYLSKKLVHRDLAARNILVS 361
DB 210 IYMEHVS KGNLVNPLRTGRALVNTAQLQESLHVAEGMEYLSKKLVHRDLAARNILVS 269
QY 362 EDLVAKVSDPGLAKAEKRGDSSRLPYKWTAPALKHGKFTSKSDVMSFGVLLMEVFSYG 421
DB 270 EDLVAKVSDPGLAKAEKRGDSSRLPYKWTAPALKHGKFTSKSDVMSFGVLLMEVFSYG 329
QY 422 RAPIPKMSLKEVSEAVEKGYRMEPPGCGPVPVHVMSSCWEABPARRPPFKLAELARE 481
DB 330 RAPIPKMSLKEVSEAVEKGYRMEPPGCGPVPVHVMSSCWEABPARRPPFKLAELARE 389
QY 482 ILSAGAPASVSGQDADGSTSPRSQEP 507
DB 390 ILSAGAPASVSGQDADGSTSPRSQEP 415

RESULT 8

US-09-977-269-7
Sequence 7, Application US/09977269
Patent No. US20020082037A1
GENERAL INFORMATION:
APPLICANT: ULLRICH, AXEL
APPLICANT: GISHIZKY, MIKHAEL
APPLICANT: SURES, IRMINGARD
TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN TYROSINE KINASES
FILE REFERENCE: 038602/1260
CURRENT APPLICATION NUMBER: US/09/977,269
CURRENT FILING DATE: 2001-10-16
PRIORITY APPLICATION NUMBER: 08/232,545
PRIORITY FILING DATE: 1994-04-22
NUMBER OF SEQ ID NOS: 24
SOFTWARE: PatentIn Ver. 2.1
SEQ ID NO 7
LENGTH: 450
TYPE: PRT
ORGANISM: Homo sapiens
US-09-977-269-7

Query Match 46.6%; Score 1245.5; DB 9; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.8e-93;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

QY 47 WAPGTCCTCKCHETRPKPELAPRKGDVYTLLEACENKSMYVKKHHTSGOGLAAGLR 106
DB 8 WPGTECIARKNFHGTABODLPFCGDVLTVAVTKDPWYAKNRY-GRBGITIPANYVQ 66
QY 107 EREASADPKLSIMPWFHGTSGGEAVVQOLPPEDGFLVRESARHPGDVYLCVSPGRDV 166
DB 67 KRGVAGKRLSLIMPWFHGTIRGQERLILPEPITGLFLVRSSTVNPBGVYTLCVSDGKY 126
QY 167 IYRVLHRDGLHTIDEAVFPCNIMDMVHEHYSKDKGAICTKLVPRPKHGTSAEBELARA 226
DB 127 EHYRIYHASKLSIDDEVYFENLMQVLEYHTSDADGICTRLIKPKWMEGTVAADDEFYS 186
QY 227 GMLNLOHLLTGAQI QGEFGAVLQGEYLGOKVAVNKIKCDVTAQAFIDETAVMTQMHE 286
DB 187 GMLNKEKLTQITKGEFGDWDGDYGNKVAVCIKXDRATQAFILAEASVMTQDRHS 246
QY 287 NIVRLIGVILHQ--GLYIYMEHVS KGNLVNPLRTGRALVNTAQLQESLHVAEGMEYLE 344
DB 247 NIVQOLLGVIVEEKGLYITETVYAKSGSLVDYLSRGRSVLGGDCILKFSIDVCEAMEYLE 306


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1  APPLICANT: Keiichi Nagai
2  APPLICANT: Tetsuji Otsuki
3  APPLICANT: Shin-ichi Funahashi
4  APPLICANT: Chiaki Senoo
5  APPLICANT: Jun-ichi Nezu
6  TITLE OF INVENTION: NOVEL GENES ENCODING PROTEIN KINASE/PROTEIN PHOSPHATASE
7  FILE REFERENCE: 06501-099002
8  CURRENT APPLICATION NUMBER: US/10/060,065
9  CURRENT FILING DATE: 2002-01-29
10 PRIOR APPLICATION NUMBER: PCT/JP00/05061
11 PRIOR FILING DATE: 2000-07-28
12 PRIOR APPLICATION NUMBER: US 60/159,590
13 PRIOR FILING DATE: 1999-10-18
14 PRIOR APPLICATION NUMBER: US 60/183,322
15 PRIOR FILING DATE: 2000-02-17
16 PRIOR APPLICATION NUMBER: JP 11-248036
17 PRIOR FILING DATE: 1999-07-29
18 PRIOR APPLICATION NUMBER: JP 2000-118776
19 PRIOR FILING DATE: 2000-01-11
20 PRIOR APPLICATION NUMBER: JP 2000-183767
21 PRIOR FILING DATE: 2000-05-02
22 PRIOR APPLICATION NUMBER: JP 2000-241899
23 PRIOR FILING DATE: 2000-06-09
24 NUMBER OF SEQ ID NOS: 43
25 SOFTWARE: PatentIn Ver. 2.0
26 SEQ ID NO 21
27 LENGTH: 450
28 TYPE: PRT
29 ORGANISM: Homo sapiens
30 OS-10-060-065-21

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Query Match	46.6%;	Score 1245.5;	DB 12;	Length 450;
Best Local Similarity	54.1%;	Pred. No. 6.8e-93;		
Matches 235; Conservative	81;	Mismatches 115;	Indels 3;	Gaps 2;

OY		4*	MAGTQOITCENTRKPPELAPRKGDVYTILEACENSWYRVNHNHSGOGILLAAGR	106
Dp		8	WPGSTBELAKNHFGTAEDOLPRCKDVLIVATKDNMTKAKKV-GRGILLPAYVO	66
OY		107	EREALSDPRLSIMPWFHGKISGOEAVOOLOPBEDGLFYRESARHPEDYVLGVSPGRDV	166
Dp		67	KREGVKAGTKLSIMPFHFGITREQERLLYPETGLFVBESINYPODYTLGVSCGKV	126
OY		167	IHRVLRDSHLITIDBAVFPCNLMDVHEYSKDCAICTKYVRPKRHGKTSAEELARA	226
Dp		127	EHRIMWHASKSLIDEVYFENNIMOJVEHYTSDADGICLTRLIKPPWEVGVAODEPYRS	186
OY		227	GMLLNLOHTLGAOIGEGEFVALOGEYVGCVAIENIKCVTAOAFLDETAVNTKNQE	286
Dp		187	GMLNMKEKLLOTITGKRGPDVMJLDTRGNKVAYKCILKNDATAQAFLAESVWTQRHS	246
OY		287	NLVRLLGVIHQ--GLYIVMEHVSKGNLVNLFRTGRALVNTAQLLOPSLHAEGMEYLE	344
Dp		247	NLVOLLGVIVBEKGGLYIVTEWMAKSLVDYRSRGRSVTLGGDCILKFSLDVCAMRYLE	306
OY		345	SKTLVHRDLAARKIIINSEBDLVAKVSPGLAKEXEKJSDSSLPYMYAPRALKHGKETS	404
Dp		307	GNNFVRHDLAARKNVLSBDDNAKVSDFGTKEASSTDTGCLPKMYAPAPEALKREKFS	366
OY		405	SDVMSFGLVMEVFSYGRAPIRPMSLKEVSEAVEKMEBPBGCGEVHVLWSSCWEAL	464
Dp		367	SDVMSFGLIMELIYSGRVPRIPLKDYVPRVEKGYMDAPDGCPRAVVEVMNCHMD	426
OY		465	PARRPPRKIAEKL	478
Dp		427	AAMPSPFOLREQ	440

```

: APPLICANT: Ota, Toshio
: APPLICANT: Isogai, Takao
: APPLICANT: Nishikawa, Tetsuo
: APPLICANT: Hayashi, Koji
: APPLICANT: Otsuka, Kaoru
: APPLICANT: Yamamoto, Jun-ichi
: APPLICANT: Ishii, Shizuko
: APPLICANT: Sugiyama, Tomoyasu
: APPLICANT: Wakamatsu, Ai
: APPLICANT: Nagai, Keiichi
: APPLICANT: Otsuki, Tetsuji
: APPLICANT: Funahashi, Shin-ichi
: APPLICANT: Senoo, Chiaki
: APPLICANT: Nezu, Jun-ichi
: TITLE OF INVENTION: NOVEL GENES ENCODING PROTEIN
: FILE REFERENCE: 06501-096001
: CURRENT APPLICATION NUMBER: US/10/059,585
: PRIOR APPLICATION NUMBER: PCT/JP00/05060
: PRIOR FILING DATE: 2002-01-29
: PRIOR APPLICATION NUMBER: US 60/183,322
: PRIOR FILING DATE: 2000-07-28
: PRIOR APPLICATION NUMBER: US 60/159,590
: PRIOR FILING DATE: 2000-02-17
: PRIOR APPLICATION NUMBER: JP 2000-118776
: PRIOR FILING DATE: 1999-10-18
: PRIOR APPLICATION NUMBER: JP 2000-118776
: PRIOR FILING DATE: 2000-01-11
: PRIOR APPLICATION NUMBER: JP 2000-183767
: PRIOR FILING DATE: 2000-05-02
: PRIOR APPLICATION NUMBER: JP 11-248036
: PRIOR FILING DATE: 1999-07-29
: NUMBER OF SEQ ID NOS: 64
: SOFTWARE: FastSeq for Windows Version 4.0
: SEQ ID NO 42
: LENGTH: 450
: TYPE: PRT
: ORGANISM: Homo sapiens
: US-10-059-585-42

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Query Match	46.6%	Score	1245.5	DB	14	Length	450
Best Local Similarity	54.1%	Pred. NO.	6.8e-93				
Matches	235	Conservative	81	Mismatches	115	Indels	3
						Gaps	2

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QY 47 WAPGOCITCKEHTRPKGELAFKRGQAVTTLIEACENSMPYVKHNTSGOEBLLAAGLR 106
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 8 WPSGTECIACKNFHGTAEQDLPRFCCKGDVLTITVAATKDPNKYKAKKV- GREGIIRANYQ 66
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 107 EREALISADPKLSIMPMWFHKTISGQBAVQOLPPEDGELFLVRESAHPDQVYLCVSFGADV 166
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 67 KREGVYKAGTCLSNPMWFHGTITREQABELLPRPEGLFLVRESNTYPODYLTLCVSODKV 126
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 167 IHVYRLHBDGHLTIDEAVFPCNLMDMVEHYSKDKALCTKLYRPRKHGITYSABEELARA 226
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 127 EHYRLMYASKLSIDEBVYFENLMQVLVEHTYSDADGLCTRLIKPKVMEGTVAQAODEFYRS 186
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 227 GMLNLQHLTLGAQIGBGFQAVLQGEFLGOKYAVKNIKCDVYTAQAFIDETRYVMKMOHE 286
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 187 GMALNMKELKILQITIGKEGFGDVMJGDRKNKVAKCKIKNDATAQAFIAEASVMTQLRHS 246
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 287 NLVYRLGYITLMQ-GLYTVMEHVSXGNLVNPLRTRGRALVMTAOLQPSLHYAEGMEYLE 344
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 247 NLVOLLGYIVBEKGELYTVTRYMAAGSLVDYIRSGRSVLTGDCILKSLDYCEAMEYLE 306
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 345 SKKLVHRDLAARNILIVSEDLVAKVSDFGIAKAKERRKGLSSRLPVYMTAPEALKHGFTSK 404
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 307 GNNFLVHRDLAARNVIVSEDNNAKVSDFGLTKEASSTQDTGKLPVMTAPEALREKFFSVRK 366
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 405 SDVMSFGVILMEVFSYGRAPYKMSIKVEVSEAVKGYRMEPEGGCPGVPYVILMSSCWEAE 464
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
Db 367 SDVMSFGVILMEVYSFGRVPRYRIFLKVQVVPVEKGYKMDADGCGPBAUYEVKMKCMHLD 426
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :
QY 465 PARRPFFKLAEKL 478
      : : : : : : : : : : : : : : : : : : : : : : : : : : : : : :

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```

RESULT 12
US-10-059-585-42
; Sequence 42, Application US/10059585
; Publication No. US2003008276A1
; GENERAL INFORMATION:

```


Job time : 587 secs

Db 307 GNNFVHRDLAARNVLVSEDNVAKVDFGLTKEASTQDNGKLPVKNWTADPEALREKKESTK 366
 QY 405 SDVWSFGVLLMEVFSYGRAPYPMKSLKEVSEAVEKGYRMRPPEGCGPAPHVLMSSCWEAB 464
 Db 367 SDVWSFGVLLMEVFSYGRAPYPMKSLKEVSEAVEKGYRMRPPEGCGPAPHVLMSSCWEAB 426
 QY 465 PARPPFRKLAELK 478
 Db 427 AAMRPSFLQIREOL 440

RESULT 15
 US-10-116-275-121
 ; Sequence 121, Application US/10116275
 ; Publication No. US20030211476A1
 ; GENERAL INFORMATION:
 ; APPLICANT: Elian Pharmaceutical Technology
 ; APPLICANT: O'Mahony, Daniel J.
 ; APPLICANT: Brayden, David
 ; APPLICANT: Byrne, Daragh
 ; APPLICANT: Lambkin, Imelda
 ; APPLICANT: Higgins, Lisa
 ; TITLE OF INVENTION: Genetic Analysis of Peyer's Patches and M Cells and Methods and
 ; TITLE OF INVENTION: Compositions Targeting Peyer's Patches and M Cell Receptors
 ; FILE REFERENCE: E1067/20087
 ; CURRENT APPLICATION NUMBER: US/10/116,275
 ; CURRENT FILING DATE: 2002-10-04
 ; NUMBER OF SEQ ID NOS: 349
 ; SOFTWARE: PatentIn version 3.1
 ; SEQ ID NO 121
 ; LENGTH: 450
 ; TYPE: PRT
 ; ORGANISM: Homo sapiens
 ; US-10-116-275-121

Query Match 46.6%; Score 1245.5; DB 15; Length 450;
 Best Local Similarity 54.1%; Pred. No. 6.de-93;
 Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

QY 47 WAPGTGCTTCCEHTRPKPKGELAPRKGDVVTLLBACENKSMYRYVGHHTSGGEGLLAAGLR 106
 Db 8 WPSGTGCTIAKNNFHTGTAEDDPFGKGDVLTIVATTNDPMYKAKNKY-GRGGIIPANTYQ 66
 QY 107 EREALSADPYLSLMPWFHKGISGQEAVALQPPEDGLFLVRESARHPGDYVLCVSPGRDY 166
 Db 67 KREGVAKGTSLMPWFHKGITREQAERLLYPETGLFLVRESINYPGDYTLCVSCDGKV 126
 QY 167 IHRVLRDGHLLTIDEAVFCNLMWYEHKSKDGAICTLVKPKRKHGTSABEELARA 226
 Db 127 EHYRIMWASKLSIDEVEYFENMLQVHEHTSDADGCTRLIKRKWEGTVAADDEFYRS 186
 QY 227 GWLLNLQHLTLGAQIGGEFGAVLQGEYVLGOKVAVKNIKCDVTAQAFLDETAVTMQHE 286
 Db 187 GWLLNMKELKLTIGGEFGDVLGDIYRGKVAVKIKNDATRQAFILASVYTIQURHS 246
 QY 287 NLVYLLGVILHQ--GLYIVMEHVSKNLVNFLTREGALVNTAQLQFSLHVAEGMEYLE 344
 Db 247 NLVOLLGVIVBEKGLYIVTEYMAKSLVDYLRSRGSVLAGDCLIKFSLDVCAMBYLE 306
 QY 345 SKLVYHNDLAARNLTVSEDLVAKVSDGLAKAKERKGLDSSRLPYKWTAPBALKHGFTSK 404
 Db 307 GNNFVHRDLAARNVLVSEDNVAKVDFGLTKEASTQDNGKLPVKNWTADPEALREKKESTK 366
 QY 405 SDVWSFGVLLMEVFSYGRAPYPMKSLKEVSEAVEKGYRMRPPEGCGPAPHVLMSSCWEAB 464
 Db 367 SDVWSFGVLLMEVFSYGRAPYPMKSLKEVSEAVEKGYRMRPPEGCGPAPHVLMSSCWEAB 426
 QY 465 PARPPFRKLAELK 478
 Db 427 AAMRPSFLQIREOL 440

GenCore version 5.1.6
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OM protein - protein search, using sw model

Run on: May 24, 2004, 08:18:42 ; Search time 22 Seconds
(without alignments)

1189,744 Million cell updates/sec

Title: US-09-977-261-2

Sequence: 1 MAGSGSLVSRARFHCDSAE.....PASVSGQDADGSTSPRSQEP 507

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 389414 seqs, 51625971 residues

Total number of hits satisfying chosen parameters: 389414

Minimum DB seq length: 0

Maximum DB seq length: 200000000

Post-processing: Minimum Match 0%

Maximum Match 100%

Listing first 45 summaries

Database :

Issued Patents AA: *
1: /cgn2_6/ptodata/2/iaa/5A.COMB.pep: *
2: /cgn2_6/ptodata/2/iaa/5B.COMB.pep: *
3: /cgn2_6/ptodata/2/iaa/6A.COMB.pep: *
4: /cgn2_6/ptodata/2/iaa/6B.COMB.pep: *
5: /cgn2_6/ptodata/2/iaa/PTCUS.COMB.pep: *
6: /cgn2_6/ptodata/2/iaa/backfilest.pep: *

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	DB ID	Description
1	2671	100.0	507	4	US-08-426-509A-2
2	2671	100.0	507	4	US-08-232-545-2
3	2671	100.0	507	5	PCT-US95-05008-2
4	2664	99.7	507	2	US-08-604-989A-5
5	2445	91.5	527	4	US-09-315-928-2
6	2444	91.5	466	2	US-08-604-989A-4
7	2434	91.1	528	2	US-08-876-882-2
8	2012	75.3	386	4	US-09-741-154-4
9	2012	75.3	415	4	US-09-741-154-2
10	1269	47.5	246	2	US-08-604-989A-3
11	1245	46.6	450	4	US-08-426-509A-7
12	1245	46.6	450	4	US-08-232-545-7
13	1245	46.6	450	4	US-09-470-881-5
14	1245	46.6	450	5	PCT-US95-05008-7
15	797	29.8	269	2	US-08-701-191A-35
16	797	29.8	269	4	US-09-664-526-35
17	768	28.8	258	3	US-09-035-706-3
18	768	28.8	258	3	US-08-955-841-3
19	768	28.8	258	4	US-09-390-425-3
20	768	28.8	258	4	US-09-566-906-3
21	742.5	27.8	508	4	US-09-862-154-1
22	742.5	27.8	509	3	US-09-039-555B-17
23	742.5	27.8	509	4	US-08-426-509A-18
24	742.5	27.8	509	4	US-09-457-040B-8
25	742.5	27.8	509	4	US-08-232-545-18
26	742.5	27.8	509	5	PCT-US95-05008-18
27	733	27.4	533	4	US-09-470-881-3

28	732	27.4	533	1	US-07-820-011A-2	Sequence 2, Appli
29	732	27.4	533	5	PCT-US93-00445-2	Sequence 2, Appli
30	727	27.2	536	1	US-07-820-011A-4	Sequence 4, Appli
31	727	27.2	536	4	US-08-426-509A-13	Sequence 13, Appli
32	727	27.2	536	4	US-08-232-545-13	Sequence 13, Appli
33	727	27.2	536	5	PCT-US93-00445-4	Sequence 4, Appli
34	727	27.2	536	5	PCT-US95-05008-13	Sequence 13, Appli
35	720.5	27.0	505	4	US-08-426-509A-17	Sequence 17, Appli
36	720.5	27.0	505	4	US-08-232-545-17	Sequence 17, Appli
37	720.5	27.0	505	5	PCT-US95-05008-17	Sequence 17, Appli
38	710	26.6	543	4	US-08-426-509A-14	Sequence 14, Appli
39	710	26.6	543	4	US-08-232-545-14	Sequence 14, Appli
40	710	26.6	543	4	US-09-470-881-8	Sequence 8, Appli
41	710	26.6	543	5	PCT-US95-05008-14	Sequence 14, Appli
42	707	26.5	512	4	US-08-426-509A-16	Sequence 16, Appli
43	707	26.5	512	4	US-08-232-545-16	Sequence 16, Appli
44	707	26.5	512	5	PCT-US95-05008-16	Sequence 16, Appli
45	699.5	26.2	536	4	US-08-426-509A-12	Sequence 12, Appli

ALIGNMENTS

RESULT 1
US-08-426-509A-2
Sequence 2, Application US/08426509A
Patent No. 6326469
GENERAL INFORMATION:
APPLICANT: Ulrich, Axel
APPLICANT: Gishizsky, Mikhail
APPLICANT: Sures, Irman G.
TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN
TITLE OF INVENTION: TYROSINE KINASES
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York,
STATE: NY
COUNTRY: USA
ZIP: 10036-2711
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/426,509A
FILING DATE: 21-APR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/232,545
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-0074-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
TELEFAX: 212-869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 507 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: unknown
US-08-426-509A-2
Query Match 100.0%; Score 2671; DB 4; Length 507;
Best Local Similarity 100.0%; Pred. No. 3.1e-219;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAGGSLVSWRAFHGCDASBELPRVSPRLRAMHPPVSAARMPTRWAPGTQCTTCEHT 60
Db 1 MAGGSLVSWRAFHGCDASBELPRVSPRLRAMHPPVSAARMPTRWAPGTQCTTCEHT 60
QY 61 RPKGELAFRRKGDVVTTLTACENKSWYRVKHTSGOGLLAAGALRERALSADPKLSLM 120
Db 61 RPKGELAFRRKGDVVTTLTACENKSWYRVKHTSGOGLLAAGALRERALSADPKLSLM 120
QY 121 PMFHGKISGOEAVQOOLQPPEDGLFLVRESARHPGDVYLCVSGRDIHYRVLRHGDHLLT 180
Db 121 PMFHGKISGOEAVQOOLQPPEDGLFLVRESARHPGDVYLCVSGRDIHYRVLRHGDHLLT 180
QY 181 DEAVFPCNLMQVMEHYSKDKGAICTKLVRPKRKHGTSAEELARAGWLINTLQHTLTGAQ 240
Db 181 DEAVFPCNLMQVMEHYSKDKGAICTKLVRPKRKHGTSAEELARAGWLINTLQHTLTGAQ 240
QY 241 IGEGEFAVLOEYLGQKVAVKIKCDVTAQAFLEDTAVMTKQOHENLVRLGVIIHQGL 300
Db 241 IGEGEFAVLOEYLGQKVAVKIKCDVTAQAFLEDTAVMTKQOHENLVRLGVIIHQGL 300
QY 301 YIWEHVSXGNLVNPLRTGRALVNTAQLQPSLHVAEGMEYLESKKLVHRDLAARNITV 360
Db 301 YIWEHVSXGNLVNPLRTGRALVNTAQLQPSLHVAEGMEYLESKKLVHRDLAARNITV 360
QY 361 SEDLVAKVSDFGIARERKGLDSSRLPVKMTAPEALKHGKFTSKSDVMSFGVLLMEVFSY 420
Db 361 SEDLVAKVSDFGIARERKGLDSSRLPVKMTAPEALKHGKFTSKSDVMSFGVLLMEVFSY 420
QY 421 GRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVHVLMSCWAEAPARRPFRKLAEKLAR 480
Db 421 GRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVHVLMSCWAEAPARRPFRKLAEKLAR 480
QY 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
Db 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507

RESULT 2
US-08-232-545-2
Sequence 2, Application US/08232545
GENERAL INFORMATION:
APPLICANT: Ulitich, Axel
APPLICANT: Glushitzky, Mikhail
TITLE OF INVENTION: Sures, Izman G.
TITLE OF INVENTION: No. 65065781 Megakaryocytic Protein Tyrosine
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: PatentIn Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,545
FILING DATE: 22-APR-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-050
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-9090
TELEFAX: (212)869-9741
TELEX: 66141 PENNIE

INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 507 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-232-545-2

Query Match 100.0%; Score 2671; DB 4; Length 507;
Best Local Similarity 100.0%; Pred. No. 3,1e-219;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAGGSLVSWRAFHGCDASBELPRVSPRLRAMHPPVSAARMPTRWAPGTQCTTCEHT 60
Db 1 MAGGSLVSWRAFHGCDASBELPRVSPRLRAMHPPVSAARMPTRWAPGTQCTTCEHT 60
QY 61 RPKGELAFRRKGDVVTTLTACENKSWYRVKHTSGOGLLAAGALRERALSADPKLSLM 120
Db 61 RPKGELAFRRKGDVVTTLTACENKSWYRVKHTSGOGLLAAGALRERALSADPKLSLM 120
QY 121 PMFHGKISGOEAVQOOLQPPEDGLFLVRESARHPGDVYLCVSGRDIHYRVLRHGDHLLT 180
Db 121 PMFHGKISGOEAVQOOLQPPEDGLFLVRESARHPGDVYLCVSGRDIHYRVLRHGDHLLT 180
QY 181 DEAVFPCNLMQVMEHYSKDKGAICTKLVRPKRKHGTSAEELARAGWLINTLQHTLTGAQ 240
Db 181 DEAVFPCNLMQVMEHYSKDKGAICTKLVRPKRKHGTSAEELARAGWLINTLQHTLTGAQ 240
QY 241 IGEGEFAVLOEYLGQKVAVKIKCDVTAQAFLEDTAVMTKQOHENLVRLGVIIHQGL 300
Db 241 IGEGEFAVLOEYLGQKVAVKIKCDVTAQAFLEDTAVMTKQOHENLVRLGVIIHQGL 300
QY 301 YIWEHVSXGNLVNPLRTGRALVNTAQLQPSLHVAEGMEYLESKKLVHRDLAARNITV 360
Db 301 YIWEHVSXGNLVNPLRTGRALVNTAQLQPSLHVAEGMEYLESKKLVHRDLAARNITV 360
QY 361 SEDLVAKVSDFGIARERKGLDSSRLPVKMTAPEALKHGKFTSKSDVMSFGVLLMEVFSY 420
Db 361 SEDLVAKVSDFGIARERKGLDSSRLPVKMTAPEALKHGKFTSKSDVMSFGVLLMEVFSY 420
QY 421 GRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVHVLMSCWAEAPARRPFRKLAEKLAR 480
Db 421 GRAPYPMKSLKEVSEAVEKGYRMEPEGCGPVHVLMSCWAEAPARRPFRKLAEKLAR 480
QY 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507
Db 481 ELRSAGAPASVSGQDADGSTSPRSQEP 507

RESULT 3
PCT-US95-05008-2
Sequence 2, Application PC/TUS9505008
GENERAL INFORMATION:
APPLICANT: Sugen, Inc.
APPLICANT: 515 Galveston Drive
APPLICANT: Redwood City, California 94063-4720
APPLICANT: United States of America
APPLICANT: Wissenschaften E.V.
APPLICANT: Hofgarten Str. 2
APPLICANT: Munchen 80539
TITLE OF INVENTION: Novel Megakaryocytic Protein Tyrosine
TITLE OF INVENTION: Kinases
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:

MEDIUM TYPE: floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: PCT/US95/05008
FILING DATE: 24-APR-1995
CLASSIFICATION:
PRIORITY APPLICATION DATA:
APPLICATION NUMBER: US 08/232,545
FILING DATE: 22-APR-1994
CLASSIFICATION:
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7693-074
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 507 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
PCT-US95-05008-2

Query Match 100.0%; Score 2671; DB 5; Length 507;
Best Local Similarity 100.0%; Pred. No. 3.1e-219;
Matches 507; Conservative 0; Mismatches 0; Indels 0; Gaps 0;

QY 1 MAGGSLVSWRAFHGCDASBELPRVSPRFLRAMHPPVSAMPTRRMAPGTQCTTKCENT 60
DB 1 MAGGSLVSWRAFHGCDASBELPRVSPRFLRAMHPPVSAMPTRRMAPGTQCTTKCENT 60
QY 61 RPKPGLAFRKGDDVVTTLAEACENKSWYRKHTSGQEGLLAAGALREBELSADPKLSIM 120
DB 61 RPKPGLAFRKGDDVVTTLAEACENKSWYRKHTSGQEGLLAAGALREBELSADPKLSIM 120
QY 121 PWFHKGISGQAVVQLOPPEDGLFLVRESARHPGDVYLCVSGRDVHYRVLAHRDGLTLI 180
DB 121 PWFHKGISGQAVVQLOPPEDGLFLVRESARHPGDVYLCVSGRDVHYRVLAHRDGLTLI 180
QY 181 DEAVFPCNLMDVMEHYSKDKGALCTKLVPRPKRGKGTSAEELARAGMLNLQHLTLGAQ 240
DB 181 DEAVFPCNLMDVMEHYSKDKGALCTKLVPRPKRGKGTSAEELARAGMLNLQHLTLGAQ 240
QY 241 IGEFGFAGVLOGEYLGQKVAVKNTKCDVTAQAFIDETAVMTKQEHNLVRLGLVILHQL 300
DB 241 IGEFGFAGVLOGEYLGQKVAVKNTKCDVTAQAFIDETAVMTKQEHNLVRLGLVILHQL 300
QY 301 YIWEHVSQGNLVNLFRTGRALVNTAQLQPSLHVAEGMEYLSEKLVHRDLAARNILV 360
DB 301 YIWEHVSQGNLVNLFRTGRALVNTAQLQPSLHVAEGMEYLSEKLVHRDLAARNILV 360
QY 361 SEDLVAAKVSDFGLAAERKGLDSSRLPYKMTAPALAKHGKFTSKSDVMSFGVILMEVPSY 420
DB 361 SEDLVAAKVSDFGLAAERKGLDSSRLPYKMTAPALAKHGKFTSKSDVMSFGVILMEVPSY 420
QY 421 GRAPYPKMSLKEVSAVEKGYRMEPECGPGVHVLMSSCWEAEAPARRPPFKLAEKLAR 480
DB 421 GRAPYPKMSLKEVSAVEKGYRMEPECGPGVHVLMSSCWEAEAPARRPPFKLAEKLAR 480
QY 481 ELRSAGAPASVSGODADGSTSPRSQEP 507
DB 481 ELRSAGAPASVSGODADGSTSPRSQEP 507

RESULT 4
US-08-604-989A-5
; Sequence 5, Application US/08604989A

Patent No. 5834208
GENERAL INFORMATION:
APPLICANT: Sakano, S.
TITLE OF INVENTION: No. 5834208el Tyrosine Kinase
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:
ADDRESSEE: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036-2711

COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: DOS
SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/604,989A
FILING DATE: February 23, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Charles E. Miller
REGISTRATION NUMBER: 24,575
REFERENCE/DOCKET NUMBER: 1920-026
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 5:
SEQUENCE CHARACTERISTICS:
LENGTH: 507 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: human
STRAIN: UT-7
US-08-604-989A-5

Query Match 99.7%; Score 2664; DB 2; Length 507;
Best Local Similarity 99.8%; Pred. No. 1.2e-218;
Matches 506; Conservative 0; Mismatches 1; Indels 0; Gaps 0;

QY 1 MAGGSLVSWRAFHGCDASBELPRVSPRFLRAMHPPVSAMPTRRMAPGTQCTTKCENT 60
DB 1 MAGGSLVSWRAFHGCDASBELPRVSPRFLRAMHPPVSAMPTRRMAPGTQCTTKCENT 60
QY 61 RPKPGLAFRKGDDVVTTLAEACENKSWYRKHTSGQEGLLAAGALREBELSADPKLSIM 120
DB 61 RPKPGLAFRKGDDVVTTLAEACENKSWYRKHTSGQEGLLAAGALREBELSADPKLSIM 120
QY 121 PWFHKGISGQAVVQLOPPEDGLFLVRESARHPGDVYLCVSGRDVHYRVLAHRDGLTLI 180
DB 121 PWFHKGISGQAVVQLOPPEDGLFLVRESARHPGDVYLCVSGRDVHYRVLAHRDGLTLI 180
QY 181 DEAVFPCNLMDVMEHYSKDKGALCTKLVPRPKRGKGTSAEELARAGMLNLQHLTLGAQ 240
DB 181 DEAVFPCNLMDVMEHYSKDKGALCTKLVPRPKRGKGTSAEELARAGMLNLQHLTLGAQ 240
QY 241 IGEFGFAGVLOGEYLGQKVAVKNTKCDVTAQAFIDETAVMTKQEHNLVRLGLVILHQL 300
DB 241 IGEFGFAGVLOGEYLGQKVAVKNTKCDVTAQAFIDETAVMTKQEHNLVRLGLVILHQL 300
QY 301 YIWEHVSQGNLVNLFRTGRALVNTAQLQPSLHVAEGMEYLSEKLVHRDLAARNILV 360
DB 301 YIWEHVSQGNLVNLFRTGRALVNTAQLQPSLHVAEGMEYLSEKLVHRDLAARNILV 360
QY 361 SEDLVAAKVSDFGLAAERKGLDSSRLPYKMTAPALAKHGKFTSKSDVMSFGVILMEVPSY 420
DB 361 SEDLVAAKVSDFGLAAERKGLDSSRLPYKMTAPALAKHGKFTSKSDVMSFGVILMEVPSY 420
QY 421 GRAPYPKMSLKEVSAVEKGYRMEPECGPGVHVLMSSCWEAEAPARRPPFKLAEKLAR 480

Db	QY	Db
421 GRPIPMISLKEVSEVKEGYMNEPEGCGFVHLMSSCWEAEAPRRPPRKLAETLAR	481 ELRSAGAPASVSGQDADGTSPPSOEP	480
	481 ELRSAGAPASVSGQDADGTSPPSOEP	507
	481 ELRSAGAPASVSGQDADGTSPPSOEP	507

RESULT 5

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US-09-315-928-2
/ Sequence 2, Application US/09315928
/ Patent No. 6368796
/ GENERAL INFORMATION:
/ APPLICANT: Avraham, Hava
/ APPLICANT: Groopman, Jerome E.
/ TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT OF
/ TITLE OF INVENTION: BRASST CANCER
/ FILE REFERENCE: MED97-01PAZ
/ CURRENT APPLICATION NUMBER: US/09/315, 928
/ CURRENT FILING DATE: 1999-05-20
/ PRIOR APPLICATION NUMBER: US 08/876, 882
/ PRIOR FILING DATE: 1997-06-16
/ PRIOR APPLICATION NUMBER: US 60/035, 228
/ PRIOR FILING DATE: 1997-01-08
/ NUMBER OF SEQ ID NOS: 5
/ SOFTWARE: FastSeq for Windows Version 3.0
/ SEQ ID NO 2
/ LENGTH: 527
/ TYPE: PR1
/ ORGANISM: Homo sapiens
US-09-315-928-2

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US-09-315-928-2

Query Match	91.5%;	Score 2445;	DB 4;	Length 527;
Best Local Similarity	93.5%;	Pred. No. 5.8e-200;		
Matches 472;	Conservative	1;	Mismatches 18;	Indels 14; Gaps 2

QY	1	MAGRGSLVSMRAFFHGDSAEELPRVSEPEFLAAMPPEVYSARMPRRAAPOTCITCEHT	60
Db	1	MAGRGSLVSMRAFFHGDSAEELPRVSEPEFLAAMPPEVYSARMPRRAAPOTCITCEHT	60
QY	61	RKPKGSLARPKDDVVTLLAEACENKSNWYVKHHTGGGSLLAAGLARERELASDPLSLIM	120
Db	61	RKPKGSLARPKDDVVTLLAEACENKSNWYVKHHTGGGSLLAAGLARERELASDPLSLIM	120

QY	12	PMFHGKISQEQVLOLPPEGLFLVYESAHPEDYLVCSFGRDYHRYVLRHCHLIT	180
Db	121	PMFHGKISQEQVLOLPPEGLFLVYESAHPEDYLVCSFGRDYHRYVLRHCHLIT	180
QY	181	DEAVFECNLMVMVEHYSKDGAICTKIVRPRKHGTSAAEELIARAGWLLNLQHLTGQ	240
Db	181	DEAVFECNLMVMVEHYSKDGAICTKIVRPRKHGTSAAEELIARAGWLLNLQHLTGQ	240

QY 241 GEGGFGVAVLQGEYIGQKVAAKNKICVLTQAQAFEDETAVNTKQOHNLVRLGLVLIHQCL 300

Db 241 IGEGFGFVAVLQGEYIGQKVAAKNKICVLTQAQAFEDETAVNTKQOHNLVRLGLVLIHQCL 300

QY 301 YIVMEHVSQGNLVNFLTFRGRALVNTAQLQFSIHVAGMEYEYSKKLVHRDIAAANILY 360

Db 301 YIVMEHVSQGNLVNFLTFRGRALVNTAQLQFSIHVAGMEYEYSKKLVHRDIAAANILY 360

420	GRAPPKKSLSEVSEAEVKEGYRMEPPGCGPGVHVIMSSCWEAEPPAGHP-----	469
421	GRAPPKKSLSEVSEAEVKEGYRMEPPGCGPGVHVIMSSCWEAEPPARRPPFKLAETKLAR	480
361	SEDVIAKKSDPGLKAERKGLDSSRLKPVKATPALNHG-FTSKSVMSFFGVLMEVFST	419
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543	-----	541

Db 470 ---SANNPRSWPGSYAVQVPQPPSQ 491

RESULT 6
US-08-604-989A-4

RESULT 6

US-08-804-989A-4
; Sequence 4, Application US/08604989A
; Patent No. 5834208
; GENERAL INFORMATION:

APPLICANT: Sakano, S.
TITLE OF INVENTION: No. 5834208e1 Tyrosine Kinase
NUMBER OF SEQUENCES: 11
CORRESPONDENCE ADDRESS:

ADDRESS: Pennie & Edmonds LLP
STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: USA
ZIP: 10036-3711

```

; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; COMPUTER: IBM Compatible
; OPERATING SYSTEM: DOS

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; SOFTWARE: FastSeq Version 2.0
;
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/08/604,989A
; FILING DATE: February 23, 1996
;

```

CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:

REGISTRATION NUMBER: 24,576
REFERENCE/DOCKET NUMBER: 1920-026
TELECOMMUNICATION INFORMATION:

TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNTE

```

; INFORMATION FOR SEQ ID NO: 4
; SEQUENCE CHARACTERISTICS:

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TYPE: amino acid
TOPOLOGY: 1 strand

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; MOLECULE TYPE: protein
; ORIGINAL SOURCE:

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ORGANISM: HU
STRAIN: UT-7

US-08-604-989A-4

Query Match	91.5%	Score 2444	DB 2	Length 466
Best Local Similarity	100.0%	Pred. No. 5.9e-200		
Matches 466	Conservative	0	Mismatches 0	Indels 0
			Gaps	0

Qy 42 MPTRRNAPGTCITCKEHTRPKGEALFRKGDVTLTAEACENKSNVYRKHTTSGOEGLLA 101
Dd 1 MPTRRNAPGTCITCKEHTRPKGEALFRKGDVTLTAEACENKSNVYRKHTTSGOEGLLA 60

Db 61 AGALRREALSNADPKLSIMPWFHGKISGCAAVQLOPPEDGLFLVRSAHHGGVYLCS 120

Qy 162 EGSDDVHYRLAHDDGHLTIDEAVFCNMMVMHYSOKKALCTKLYRPKRGHTKSAE 221

Db 121 EGGDDVHYRYLHDDGHLTIDEAVFCNMDMVEHYSOKKALCTKLYRPKRGHTKSAE 180

222 ETAPAKMTNTNPTMTGATGCGRRRRAATGCTGCACTGATTCGTCATCTTAAAT 221

Db	181	ELARAGMLNLQHLITLTAAGTIGEGEPFGAVLQGEYLGQKVAVKNIKCDVTAQAFIDETVMT	240
Qy	282	KQHEMLVRLGLVILHQGLYTVWEHYSKGLVNFILRTGRALVNTAQILOFSLVAEGME	341
Db	241	KQHEMLVRLGLVILHQGLYTVWEHYSKGLVNFILRTGRALVNTAQILOFSLVAEGME	300
Qy	342	YIESKTLVRDILAAARILIVSEDLVAVYSPDGLAKAEKKGILDSSTPIPKTWTAPAPLITKGGK	401

D₀ 301 YLESKKLVHRDLAARNILVSEDLVAKYSDPGLAKAERKGLDSSRLPVKWTAPALKHGKF 360

QY 402 TSKSDVMSFGVLLMEVFSYGRAPYPOMSLKEYSEAVEKGYRMEBPGECPGVHVLMSSCW 461
|||||

Db 361 TSKDWSFGVLLMEVSYGAPFIPKMSLKEVSEAVEKGYMEPEGCGPVHVLMSG 420
QY 462 EAEARRRPFRKLAELKARELSAGAPASVSGODAGSTSPRSQEP 507
Db 421 EAEARRRPFRKLAELKARELSAGAPASVSGODAGSTSPRSQEP 466

RESULT 7

US-08-876-882-2
Sequence 2, Application US/08876882
Patent No. 5981201
GENERAL INFORMATION:
APPLICANT: Avraham, Hava
APPLICANT: Groopman, Jerome E.
TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT
TITLE OF INVENTION: METHODS OF DETECTION AND TREATMENT
NUMBER OF SEQUENCES: 9
CORRESPONDENCE ADDRESS:
ADDRESSEE: Hamilton, Brook, Smith & Reynolds P.C.
STREET: Two Militia Drive
CITY: Lexington
STATE: MA
COUNTRY: USA
ZIP: 02173-4799
COMPUTER READABLE FORM:
MEDIUM TYPE: Diskette
COMPUTER: IBM Compatible
OPERATING SYSTEM: Windows
SOFTWARE: FastSeq for Windows Version 2.0b
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/876,882
FILING DATE: 16-JUN-1997
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 60/035,228
FILING DATE: 08-JAN-1997
ATTORNEY/AGENT INFORMATION:
NAME: Doreen, Hoyle M
REGISTRATION NUMBER: 36,361
REFERENCE/DOCKET NUMBER: NEDH97-01PA
TELECOMMUNICATION INFORMATION:
TELEPHONE: 781-861-6240
TELEFAX: 781-861-9540
INFORMATION FOR SEQ ID NO: 2:
SEQUENCE CHARACTERISTICS:
LENGTH: 528 amino acids
TYPE: amino acid
STRANDEDNESS: single
TOPOLOGY: linear
MOLECULE TYPE: protein
FRAGMENT TYPE: internal
US-08-876-882-2

Query Match 91.1%; Score 2434.5; DB 2; Length 528;
Best Local Similarity 93.3%; Pred. No. 4.5e-199;
Matches 472; Conservative 1; Mismatches 18; Indels 15; Gaps 3;
QY 1 MAGEGLSVWRAFHGCDSAEELPRVSPFLFAMHPPPVSAAPRPMAPGTCTCKEHT 60
Db 1 MAGEGLSVWRAFHGCDSAEELPRVSPFLFAMHPPPVSAAPRPMAPGTCTCKEHT 60
QY 61 RPKXGELAFKRGDVYTTLEACENKSWRVKHTSGOGLLAAGALRREALSADPKLST 119
Db 61 RPKXGELAFKRGDVYTTLEACENKSWRVKHTSGOGLLAAGALRREALSADPKLST 119
QY 120 MPWFKGISGOEAVQOOLPPEDGFLVRESARHPGDVYLCVSPGRDVIHYRVLRDGHILT 179
Db 120 MPWFKGISGOEAVQOOLPPEDGFLVRESARHPGDVYLCVSPGRDVIHYRVLRDGHILT 179
QY 180 IDEAVFFCNLMDMVHYHSDKGAICTKLVPRKRGKTSABEELARAGWLNLQHLTLGA 239
Db 180 IDEAVFFCNLMDMVHYHSDKGAICTKLVPRKRGKTSABEELARAGWLNLQHLTLGA 239
QY 181 IDEAVFFCNLMDMVHYHSDKGAICTKLVPRKRGKTSABEELARAGWLNLQHLTLGA 240
Db 181 IDEAVFFCNLMDMVHYHSDKGAICTKLVPRKRGKTSABEELARAGWLNLQHLTLGA 240

QY 240 QIGGEFGAVLQGEYLGQKVAIVKIKCDVTAQAFIDETAAMTKMHENLVLLGVILHOG 299
Db 241 QIGGEFGAVLQGEYLGQKVAIVKIKCDVTAQAFIDETAAMTKMHENLVLLGVILHOG 300
QY 300 LYIYMEHVSNGNLVNFRTGRALVNTAQLLOPSLHVAEGMEYIESKLVYRDIAANITL 359
Db 301 LYIYMEHVSNGNLVNFRTGRALVNTAQLLOPSLHVAEGMEYIESKLVYRDIAANITL 360
QY 360 VSEDVAKVSDPGLAKERRGLDSRLPVKMTAPALKHGKTSKDVMSFGVLLMEVFS 419
Db 361 VSEDVAKVSDPGLAKERRGLDSRLPVKMTAPALKHG-FTSKSDVMSFGVLLMEVFS 419
QY 420 YGRAPYKMSLKEVSEAVEKGYMEPEGCGPVHVLMSGWEAEAPARRPFRKLAELKLA 479
Db 420 YGRAPYKMSLKEVSEAVEKGYMEPEGCGPVHVLMSGWEAEAPARRPFRKLAELKLA 479
QY 480 RELRSAGAPASVSGODAGSTSPRSQ 505
Db 471 ----SANWPRSWPSYAVQVPOPPSQ 492

RESULT 8

US-09-741-154-4
Sequence 4, Application US/09741154
Patent No. 6437110
GENERAL INFORMATION:
APPLICANT: BEASLEY, Ellen M. et al
TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
FILE REFERENCE: CLO01061
CURRENT APPLICATION NUMBER: US/09/741,154
CURRENT FILING DATE: 2000-12-21
NUMBER OF SEQ ID NOS: 4
SOFTWARE: FastSeq for Windows Version 4.0
SEQ ID NO 4
LENGTH: 386
TYPE: PRT
ORGANISM: Human
US-09-741-154-4

Query Match 75.3%; Score 2012; DB 4; Length 386;
Best Local Similarity 100.0%; Pred. No. 2.8e-163;
Matches 386; Conservative 0; Mismatches 0; Indels 0; Gaps 0;
QY 122 WFKGISGOEAVQOOLPPEDGFLVRESARHPGDVYLCVSPGRDVIHYRVLRDGHILTID 181
Db 1 WFKGISGOEAVQOOLPPEDGFLVRESARHPGDVYLCVSPGRDVIHYRVLRDGHILTID 60
QY 182 EAVFFCNLMDMVHYHSDKGAICTKLVPRKRGKTSABEELARAGWLNLQHLTLGAQI 241
Db 61 EAVFFCNLMDMVHYHSDKGAICTKLVPRKRGKTSABEELARAGWLNLQHLTLGAQI 120
QY 242 GEGEFGAVLQGEYLGQKVAIVKIKCDVTAQAFIDETAAMTKMHENLVLLGVILHOG 301
Db 242 GEGEFGAVLQGEYLGQKVAIVKIKCDVTAQAFIDETAAMTKMHENLVLLGVILHOG 301
QY 302 IYMEHVSNGNLVNFRTGRALVNTAQLLOPSLHVAEGMEYIESKLVYRDIAANITL 361
Db 181 IYMEHVSNGNLVNFRTGRALVNTAQLLOPSLHVAEGMEYIESKLVYRDIAANITL 240
QY 362 EDLVAKVSDPGLAKERRGLDSRLPVKMTAPALKHGKTSKDVMSFGVLLMEVFSYG 421
Db 241 EDLVAKVSDPGLAKERRGLDSRLPVKMTAPALKHGKTSKDVMSFGVLLMEVFSYG 300
QY 422 RAVPYKMSLKEVSEAVEKGYMEPEGCGPVHVLMSGWEAEAPARRPFRKLAELKLA 481
Db 301 RAVPYKMSLKEVSEAVEKGYMEPEGCGPVHVLMSGWEAEAPARRPFRKLAELKLA 360
QY 482 LRSAGAPASVSGODAGSTSPRSQEP 507
Db 361 LRSAGAPASVSGODAGSTSPRSQEP 386

RESULT 9
US-09-741-154-2
; Sequence 2, Application US/09741154
; Patent No. 6437110
; GENERAL INFORMATION:
; APPLICANT: BEASLEY, Ellen M. et al
; TITLE OF INVENTION: ISOLATED HUMAN KINASE PROTEINS, NUCLEIC
; TITLE OF INVENTION: ACID MOLECULES ENCODING HUMAN KINASE PROTEINS, AND USES
; TITLE OF INVENTION: THEREOF
; FILE REFERENCE: C1001061
; CURRENT APPLICATION NUMBER: US/09/741,154
; CURRENT FILING DATE: 2000-12-21
; NUMBER OF SEQ ID NOS: 4
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 415
; TYPE: PRT
; ORGANISM: Human
US-09-741-154-2

Query Match 75.3%; Score 2012; DB 4; Length 415;
Best Local Similarity 100.0%; Pred. No. 3.1e-163; Indels 0; Gaps 0;
Matches 386; Conservative 0; Mismatches 0;

QY 122 MFKGISGQAVVQQLPPEDEGLFLVESARHPGDYVLGVSGRDVIHYRVLHRDGLTID 181
DB 30 MFKGISGQAVVQQLPPEDEGLFLVESARHPGDYVLGVSGRDVIHYRVLHRDGLTID 89
QY 182 EAFPCNLMDMVHYSKDKGALCTKLVPRKKGTSASEELARAGWLNLQHLTGAOI 241
DB 90 EAFPCNLMDMVHYSKDKGALCTKLVPRKKGTSASEELARAGWLNLQHLTGAOI 149
QY 242 GESEFGAVLQGEYLGQKAVVKNIKCDVTQAFLDETAVTVMQHEMLVRLGVILHOGILY 301
DB 150 GESEFGAVLQGEYLGQKAVVKNIKCDVTQAFLDETAVTVMQHEMLVRLGVILHOGILY 209
QY 302 IYMEHYSKGNLVNPLRTGRALVNTAQLQFSLHVAEGMEYLSKKLVHRLAARNILVS 361
DB 210 IYMEHYSKGNLVNPLRTGRALVNTAQLQFSLHVAEGMEYLSKKLVHRLAARNILVS 269
QY 362 EDVVAVSDPGLAKARKGLDSSRLPVKWTAPBALKHGFTSKSDVMSGVLMEVFSYG 421
DB 270 EDVVAVSDPGLAKARKGLDSSRLPVKWTAPBALKHGFTSKSDVMSGVLMEVFSYG 329
QY 422 RAPPYPMSLKEVSEAVEKGYRMEPPGCGPVHVMSSCWEAEPARPPFRKLAELARE 481
DB 330 RAPPYPMSLKEVSEAVEKGYRMEPPGCGPVHVMSSCWEAEPARPPFRKLAELARE 389
QY 482 IRSAGAPASVSGQDADGSTRSOP 507
DB 390 IRSAGAPASVSGQDADGSTRSOP 415

RESULT 10
US-08-604-989A-3
; Sequence 3, Application US/08604989A
; Patent No. 5834208
; GENERAL INFORMATION:
; APPLICANT: Sakano, S.
; TITLE OF INVENTION: No. 5814208el Tyrosine Kinase
; NUMBER OF SEQUENCES: 11
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds LLP
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: New York
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: IBM Compatible
; OPERATING SYSTEM: DOS

SOFTWARE: FastSeq Version 2.0
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/604,989A
FILING DATE: February 23, 1996
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Charles E. Miller
REGISTRATION NUMBER: 24,576
REFERENCE/DOCKET NUMBER: 1920-026
TELEPHONE: (212) 790-9090
TELEFAX: (212) 869-8864/9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 3:
SEQUENCE CHARACTERISTICS:
LENGTH: 246 amino acids
TYPE: amino acid
TOPOLOGY: linear
MOLECULE TYPE: protein
ORIGINAL SOURCE:
ORGANISM: human
STRAIN: UT-7
US-08-604-989A-3

Query Match 47.5%; Score 1269; DB 2; Length 246;
Best Local Similarity 100.0%; Pred. No. 2.8e-100; Indels 0; Gaps 0;
Matches 246; Conservative 0; Mismatches 0;

QY 223 QHLTGAOIGGEFGAVLQGEYLGQKAVVKNIKCDVTQAFLDETAVTVMQHEMLVRL 292
DB 1 QHLTGAOIGGEFGAVLQGEYLGQKAVVKNIKCDVTQAFLDETAVTVMQHEMLVRL 60
QY 293 GVIILHOGILYIYMEHYSKGNLVNPLRTGRALVNTAQLQFSLHVAEGMEYLSKKLVHRL 352
DB 61 GVIILHOGILYIYMEHYSKGNLVNPLRTGRALVNTAQLQFSLHVAEGMEYLSKKLVHRL 120
QY 353 LAARNILVSEDLVAVKVSDFGLAKARKGLDSSRLPVKWTAPBALKHGFTSKSDVMSFGV 412
DB 121 LAARNILVSEDLVAVKVSDFGLAKARKGLDSSRLPVKWTAPBALKHGFTSKSDVMSFGV 180
QY 413 LIMEVFSYGRAPPYPMSLKEVSEAVEKGYRMEPPGCGPVHVMSSCWEAEPARPPFR 472
DB 181 LIMEVFSYGRAPPYPMSLKEVSEAVEKGYRMEPPGCGPVHVMSSCWEAEPARPPFR 240
QY 473 KLAEXTL 478
DB 241 KLAEXTL 246

RESULT 11
US-08-426-509A-7
; Sequence 7, Application US/08426509A
; Patent No. 6326469
; GENERAL INFORMATION:
; APPLICANT: Ulrich, Axel
; APPLICANT: Gishizsky, Mikhail
; APPLICANT: Sures, Irman G.
; TITLE OF INVENTION: NOVEL MEGAKARYOCYTIC PROTEIN
; TITLE OF INVENTION: TYROSINE KINASES
; NUMBER OF SEQUENCES: 21
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: Pennie & Edmonds
; STREET: 1155 Avenue of the Americas
; CITY: New York
; STATE: NY
; COUNTRY: USA
; ZIP: 10036-2711
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Diskette
; OPERATING SYSTEM: IBM Compatible
; OPERATING SYSTEM: DOS
; CURRENT APPLICATION DATA:

```

APPLICATION NUMBER: US/08/426,509A
FILING DATE: 21-APR-1995
CLASSIFICATION: 435
PRIOR APPLICATION DATA:
APPLICATION NUMBER: 08/232,545
FILING DATE:
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-0074-999
TELECOMMUNICATION INFORMATION:
TELEPHONE: 212-790-9090
TELEFAX: 212-869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 450 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: No. 6326469e
US-08-426-509A-7

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Query Match          46.6%; Score 1245.5; DB 4; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.3e-98;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

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QY 47 WAPGTQCTTCENTHPRKGBELAFRKGDVYVTLLEACENKSWYRVKHTSGOGLLAAGLR 106
DB 8 WPSGTETCIKYNFHGTAEODLPFCCKGDVLTIVATKDPNWKAKNKV-GREGIIPANYVQ 66
QY 107 EREALSADPKLSIMPFHFKTSGEAVOOLQPPEDGLFLVRESARHFGDYLCVSPGRDV 166
DB 67 KREGVKAGTGLSLMPWFHFKITREQAERLLYPETGLFLVRESITNPGDYLCVSCDGK 126
QY 167 IHRVTLRDGHLITIDEAVFPCNLMQVMEHYSKDKGALCTKLVRPKRKGTSABEELARA 226
DB 127 EHYRIMYASKLSIDEVYFENIMQVLEHYTSDADGLCTRLIKPKVMGTVAADDEFYRS 186
QY 227 GMLNLQHLITLGAQIGSEFGAVLQGEYLGOKVAVNKIKCDVTAQAFLEDAVMTKMOHE 286
DB 187 GVALNMKELKLLQTTIGSGEFGDVMGIDYRGKVAVKCIKNDATAQAFLAESVMTQLNHS 246
QY 287 NLVRLGVILHQ--GLYIVMEHVSNGNLVNLRTGRALVNTAQLQSLHVAEGMEYLE 344
DB 247 NLVQLLVIVBEKGLVITEYMAKGSVDYLRSGESVLGGDCLLKFSLDVCCEMEYLE 306
QY 345 SKKLVRHDLAARNILVSEDLVAKVSDFGAKAERKGLDSRLPYKWTAPBALKKGKFTSK 404
DB 307 GNNFVHRDLAARNVLVSEDNVAKVSDFGITKEASTQDTGCLPYKWTAPBALRKKKSTK 366
QY 405 SDVMSFGVLLMEVFSYGRAPYPKMSLKEVSEAVEKGYMEPPGCGPFAVHLMSSCEAE 464
DB 367 SDVMSFGILLMEITSFGRVYPRIPDKDVPRVEKGYMDAPDCCPFAVVEVMNKCWHLD 426
QY 465 PARPPFRKLAEK 478
DB 427 AAMPSPFLQIREQL 440

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RESULT 12
US-08-232-545-7
Sequence 7, Application US/08232545
Patent No. 6506578
GENERAL INFORMATION:
APPLICANT: Ulrich, Axel
APPLICANT: Gishizsky, Mikhail
APPLICANT: Sures, Iman G
TITLE OF INVENTION: No. 6506578e1 Megakaryocytic Protein Tyrosine
NUMBER OF SEQUENCES: 21
CORRESPONDENCE ADDRESS:
ADDRESS: Pennie & Edmonds

```

```

STREET: 1155 Avenue of the Americas
CITY: New York
STATE: New York
COUNTRY: U.S.A.
ZIP: 10036
COMPUTER READABLE FORM:
MEDIUM TYPE: Floppy disk
COMPUTER: IBM PC compatible
OPERATING SYSTEM: PC-DOS/MS-DOS
SOFTWARE: Patentin Release #1.0, Version #1.25
CURRENT APPLICATION DATA:
APPLICATION NUMBER: US/08/232,545
FILING DATE: 22-APR-1994
CLASSIFICATION: 435
ATTORNEY/AGENT INFORMATION:
NAME: Coruzzi, Laura A.
REGISTRATION NUMBER: 30,742
REFERENCE/DOCKET NUMBER: 7683-050
TELECOMMUNICATION INFORMATION:
TELEPHONE: (212)790-9090
TELEFAX: (212)869-9741
TELEX: 66141 PENNIE
INFORMATION FOR SEQ ID NO: 7:
SEQUENCE CHARACTERISTICS:
LENGTH: 450 amino acids
TYPE: amino acid
STRANDEDNESS: unknown
TOPOLOGY: unknown
MOLECULE TYPE: protein
US-08-232-545-7

```

```

Query Match          46.6%; Score 1245.5; DB 4; Length 450;
Best Local Similarity 54.1%; Pred. No. 6.3e-98;
Matches 235; Conservative 81; Mismatches 115; Indels 3; Gaps 2;

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QY 47 WAPGTQCTTCENTHPRKGBELAFRKGDVYVTLLEACENKSWYRVKHTSGOGLLAAGLR 106
DB 8 WPSGTETCIKYNFHGTAEODLPFCCKGDVLTIVATKDPNWKAKNKV-GREGIIPANYVQ 66
QY 107 EREALSADPKLSIMPFHFKTSGEAVOOLQPPEDGLFLVRESARHFGDYLCVSPGRDV 166
DB 67 KREGVKAGTGLSLMPWFHFKITREQAERLLYPETGLFLVRESITNPGDYLCVSCDGK 126
QY 167 IHRVTLRDGHLITIDEAVFPCNLMQVMEHYSKDKGALCTKLVRPKRKGTSABEELARA 226
DB 127 EHYRIMYASKLSIDEVYFENIMQVLEHYTSDADGLCTRLIKPKVMGTVAADDEFYRS 186
QY 227 GMLNLQHLITLGAQIGSEFGAVLQGEYLGOKVAVNKIKCDVTAQAFLEDAVMTKMOHE 286
DB 187 GVALNMKELKLLQTTIGSGEFGDVMGIDYRGKVAVKCIKNDATAQAFLAESVMTQLNHS 246
QY 287 NLVRLGVILHQ--GLYIVMEHVSNGNLVNLRTGRALVNTAQLQSLHVAEGMEYLE 344
DB 247 NLVQLLVIVBEKGLVITEYMAKGSVDYLRSGESVLGGDCLLKFSLDVCCEMEYLE 306
QY 345 SKKLVRHDLAARNILVSEDLVAKVSDFGAKAERKGLDSRLPYKWTAPBALKKGKFTSK 404
DB 307 GNNFVHRDLAARNVLVSEDNVAKVSDFGITKEASTQDTGCLPYKWTAPBALRKKKSTK 366
QY 405 SDVMSFGVLLMEVFSYGRAPYPKMSLKEVSEAVEKGYMEPPGCGPFAVHLMSSCEAE 464
DB 367 SDVMSFGILLMEITSFGRVYPRIPDKDVPRVEKGYMDAPDCCPFAVVEVMNKCWHLD 426
QY 465 PARPPFRKLAEK 478
DB 427 AAMPSPFLQIREQL 440

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RESULT 13
US-09-470-881-5
Sequence 5, Application US/09470881
Patent No. 6685938
GENERAL INFORMATION:

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